

FIG. 1A

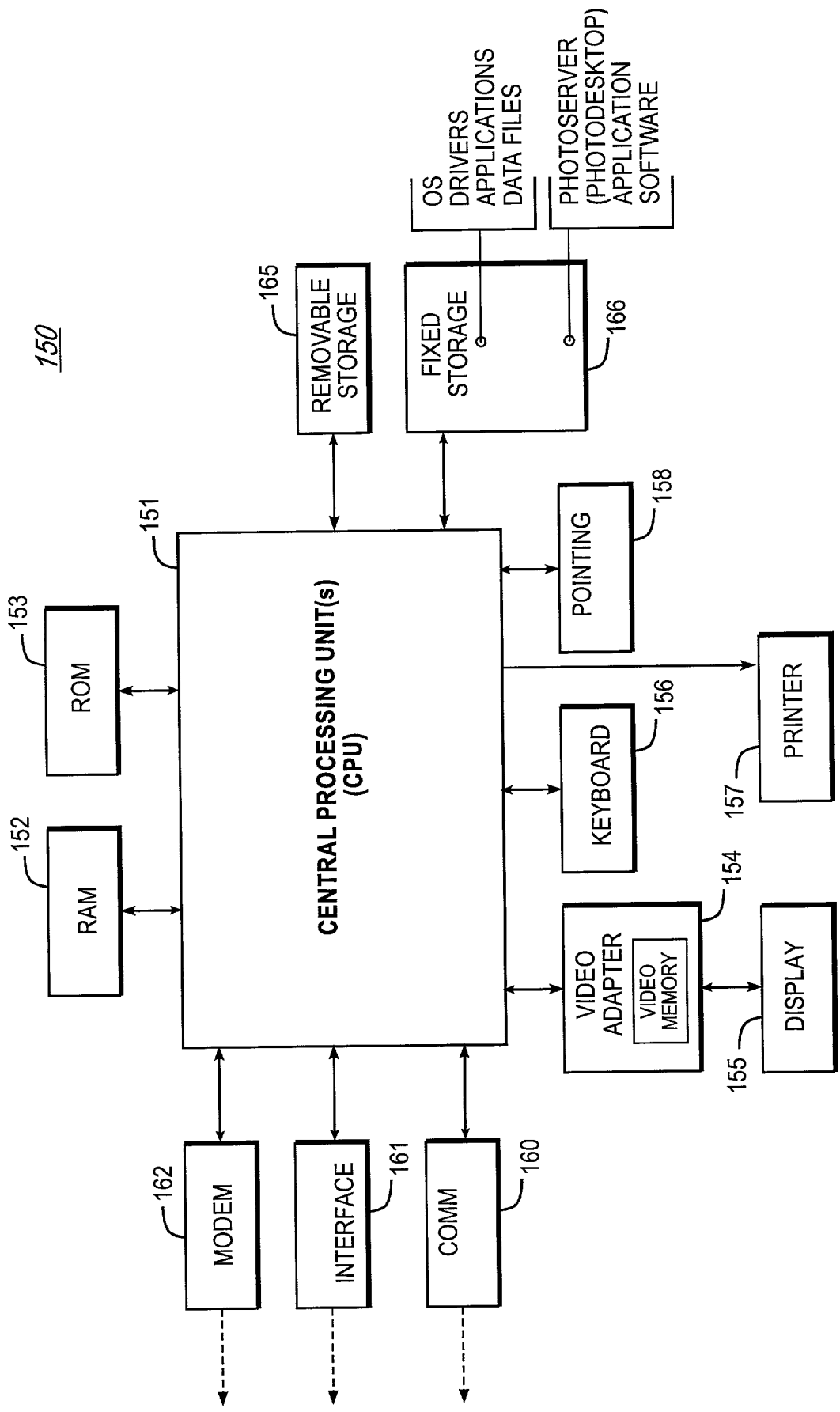


FIG. 1B

200

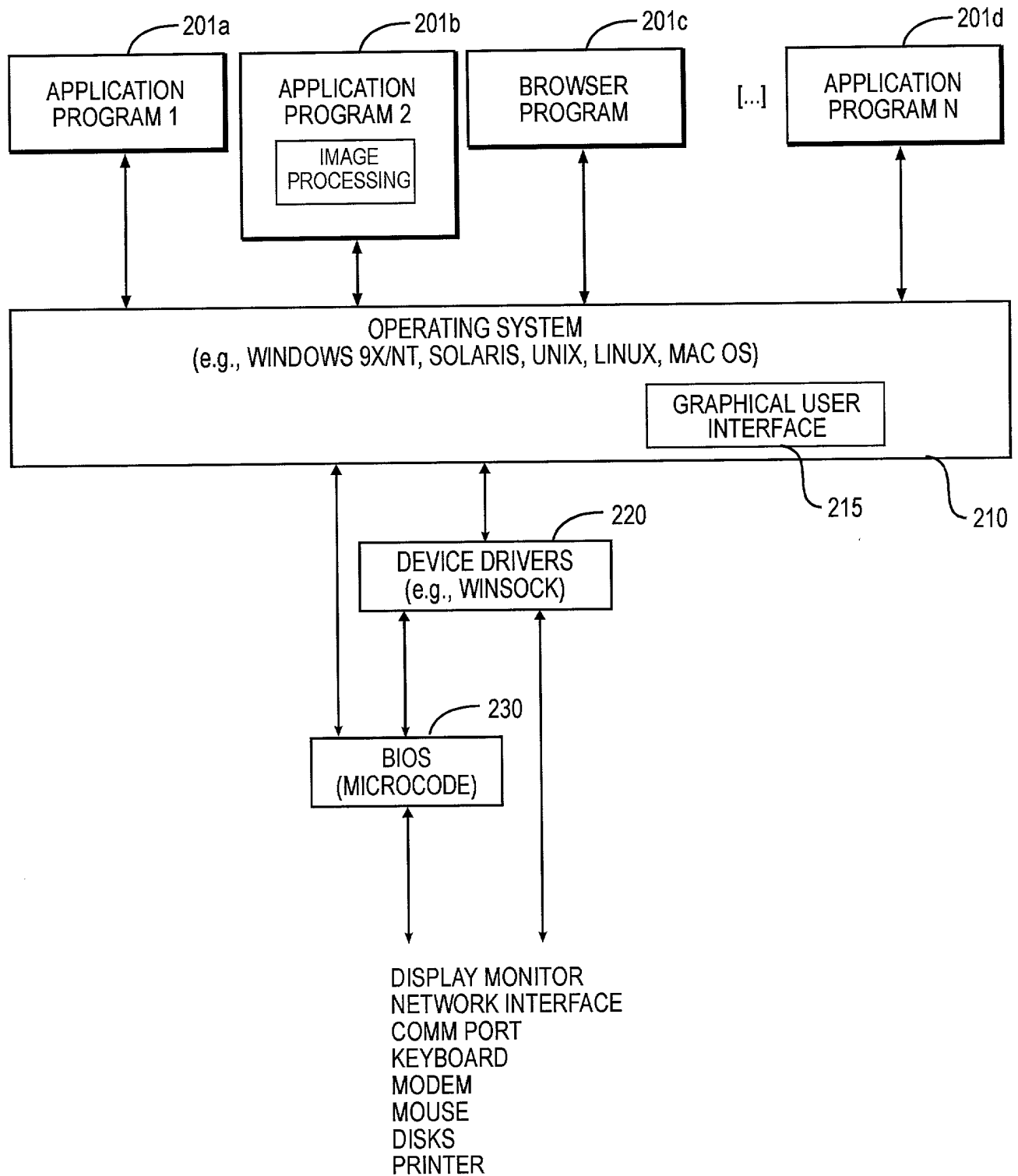


FIG. 2

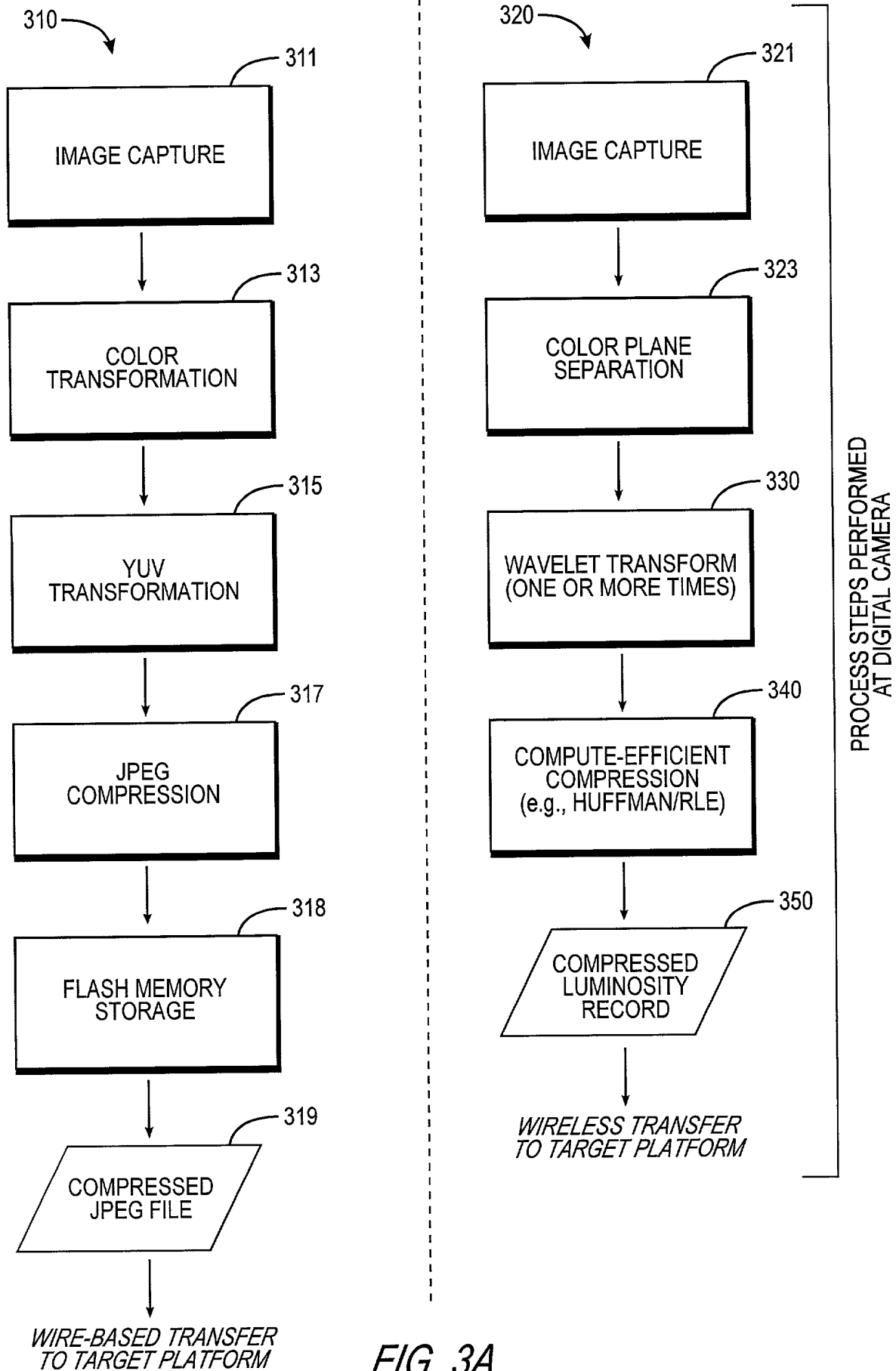


FIG. 3A

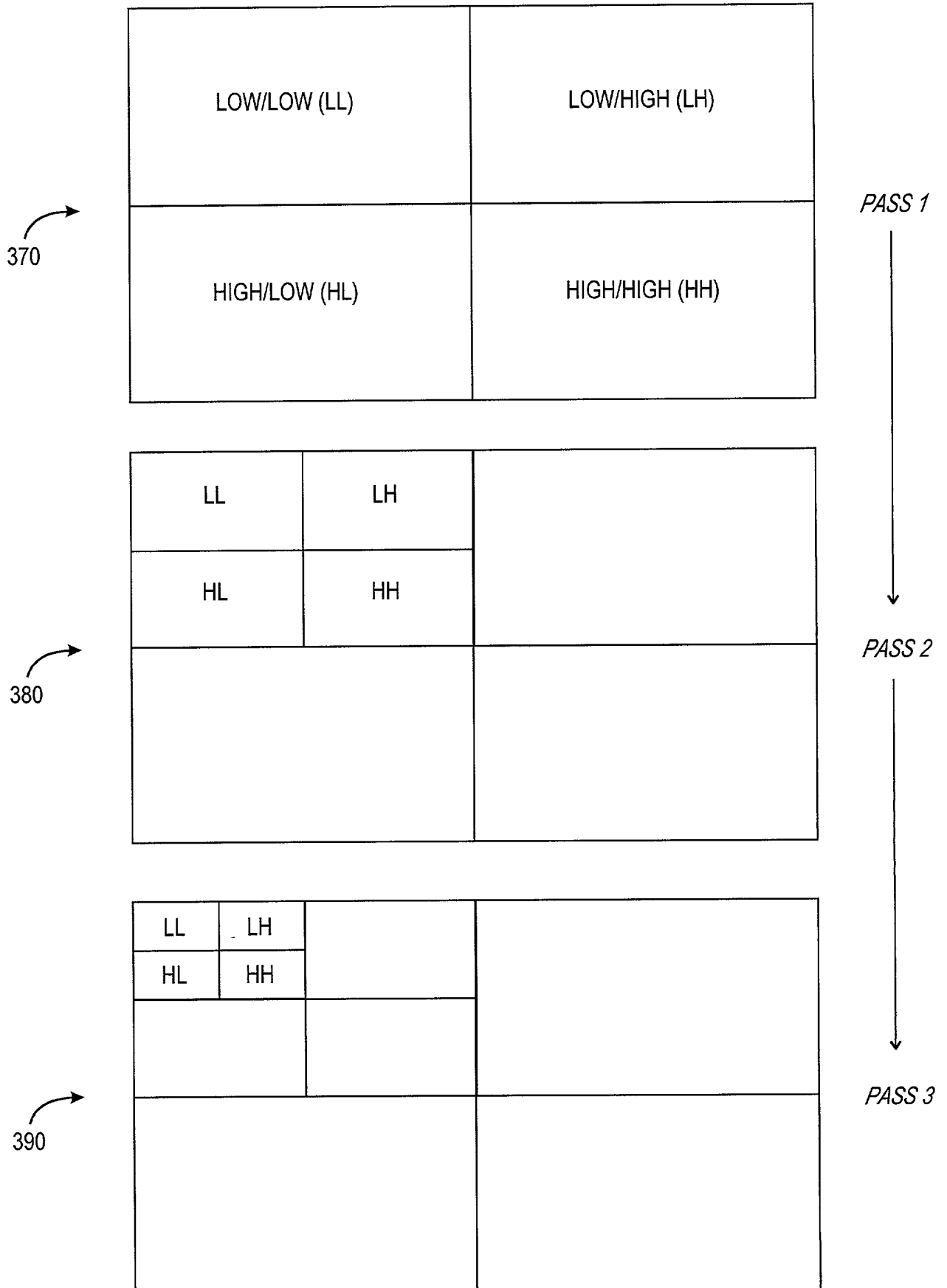


FIG. 3B



FIG. 3C

JPEG
COMPRESSION
(48:1)

jc903 U.S. PRO
09/779769
02/07/01



FIG. 3D



FIG. 3E

WAVELET
TRANSFORM
COMPRESSION
(48:1)



JPEG
COMPRESSION
(32:1)

FIG. 3F



WAVELET
TRANSFORM
COMPRESSION
(32:1)

FIG. 3G



JPEG
COMPRESSION
(16:1)

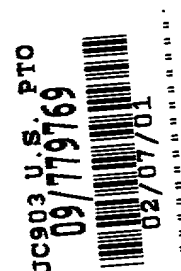


FIG. 3H



WAVELET
TRANSFORM
COMPRESSION
(16:1)

FIG. 3I

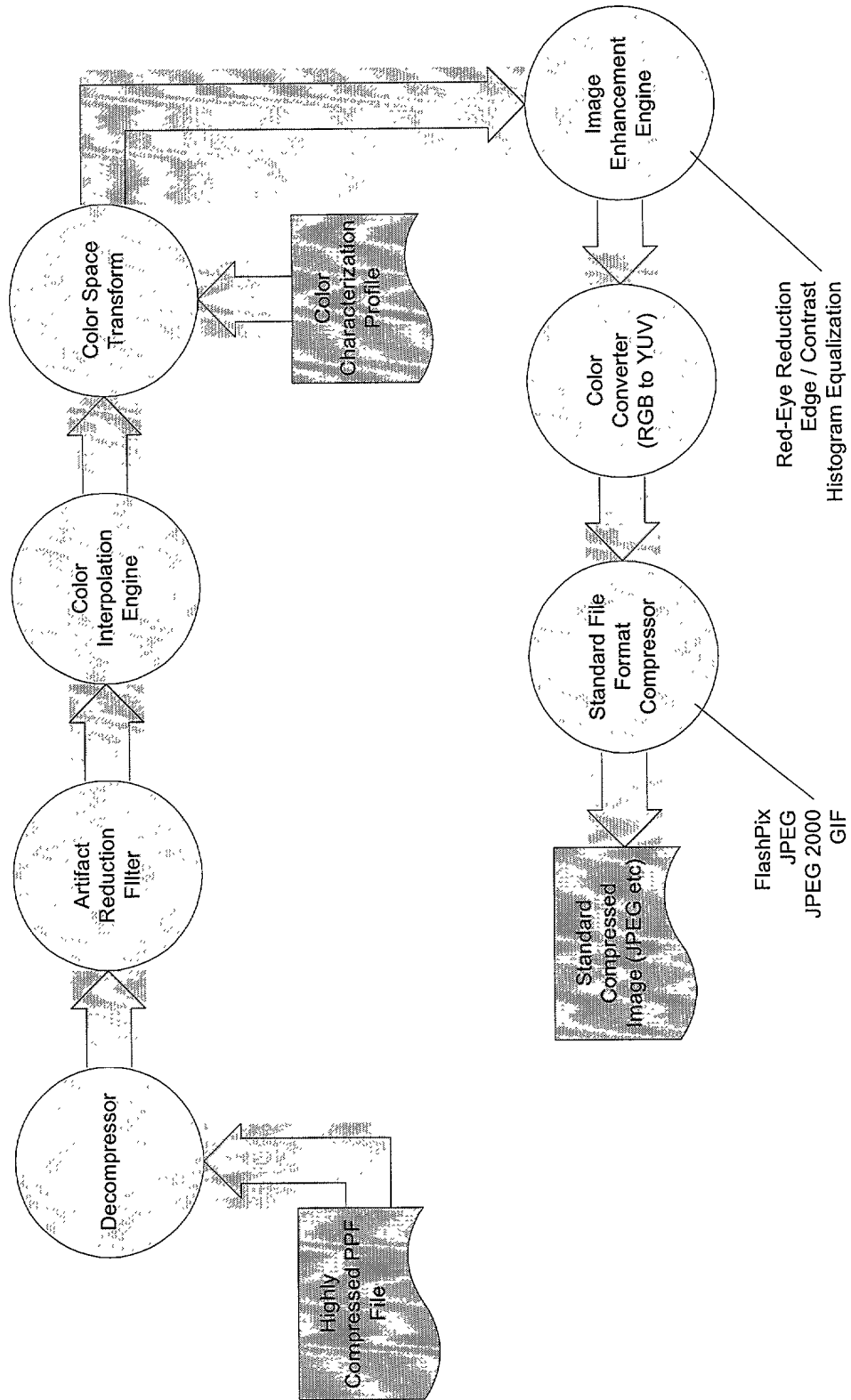


FIG. 4A

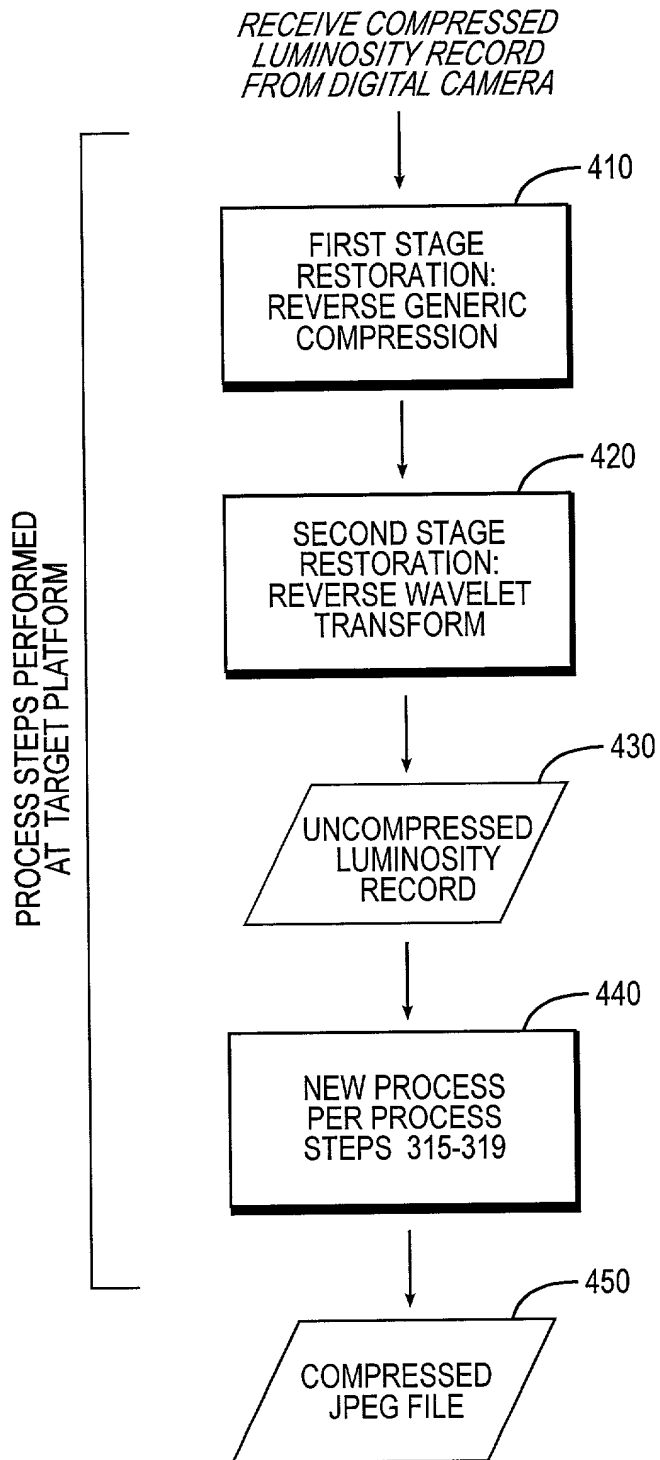


FIG. 4B

Diagram illustrating the Bayer pattern for color image representation. The diagram shows a 2x2 grid of color channels (R, G1, G2, B) and a 2x2 grid of Bayer pattern coefficients (R, G1, G2, B). The Bayer pattern coefficients are arranged in a repeating pattern, with the top-left coefficient being R, the top-right being G1, the bottom-left being G2, and the bottom-right being B. The diagram shows how the Bayer pattern is applied to the color channels to create a single Bayer pattern image.

FIG. 5

UV Color Space for Y=1.0 (maximum)

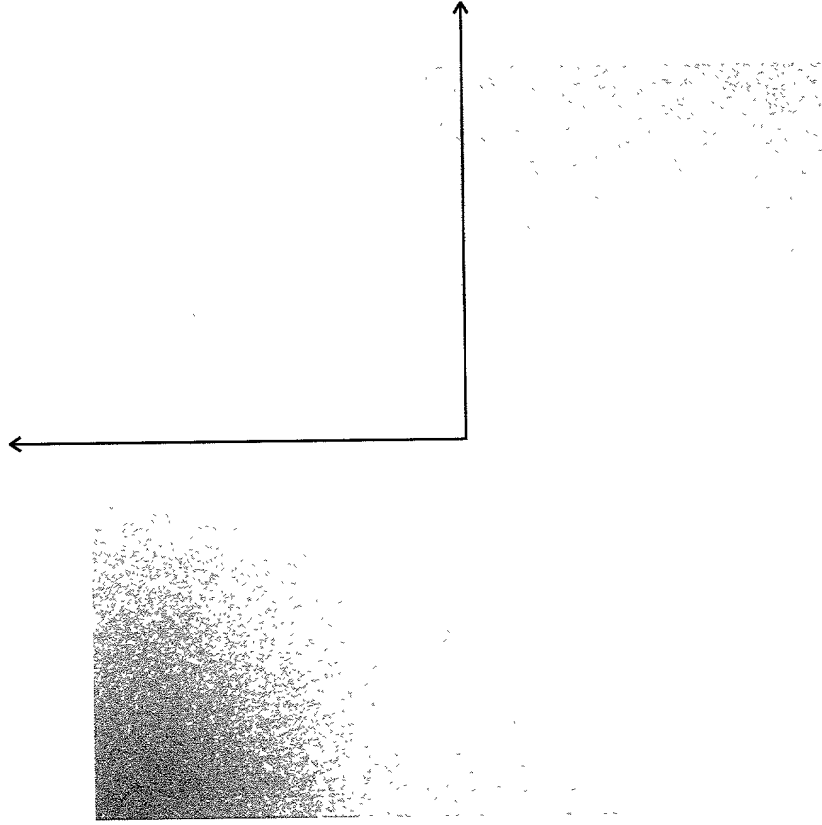


FIG. 6A

ONE CELL OF THE BAYER PATTERN (HATCHED)
 AND SOME SURROUNDING PIXELS

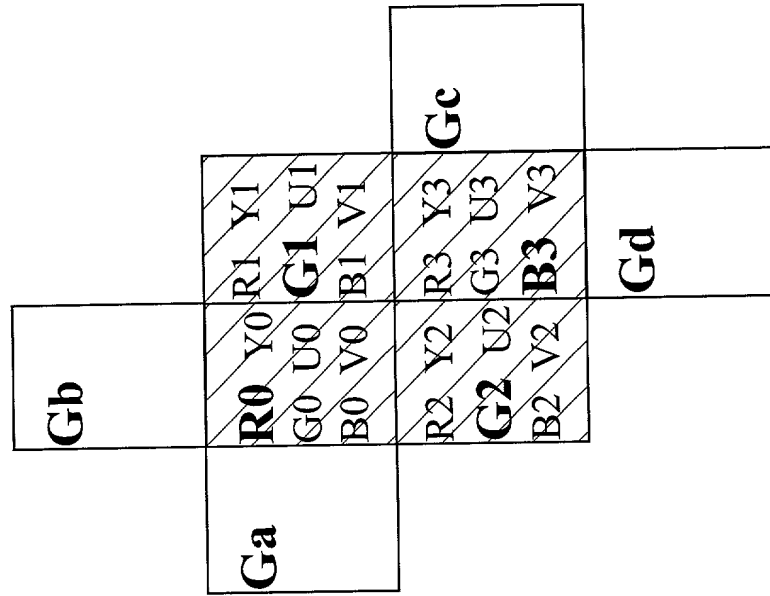


FIG. 6B

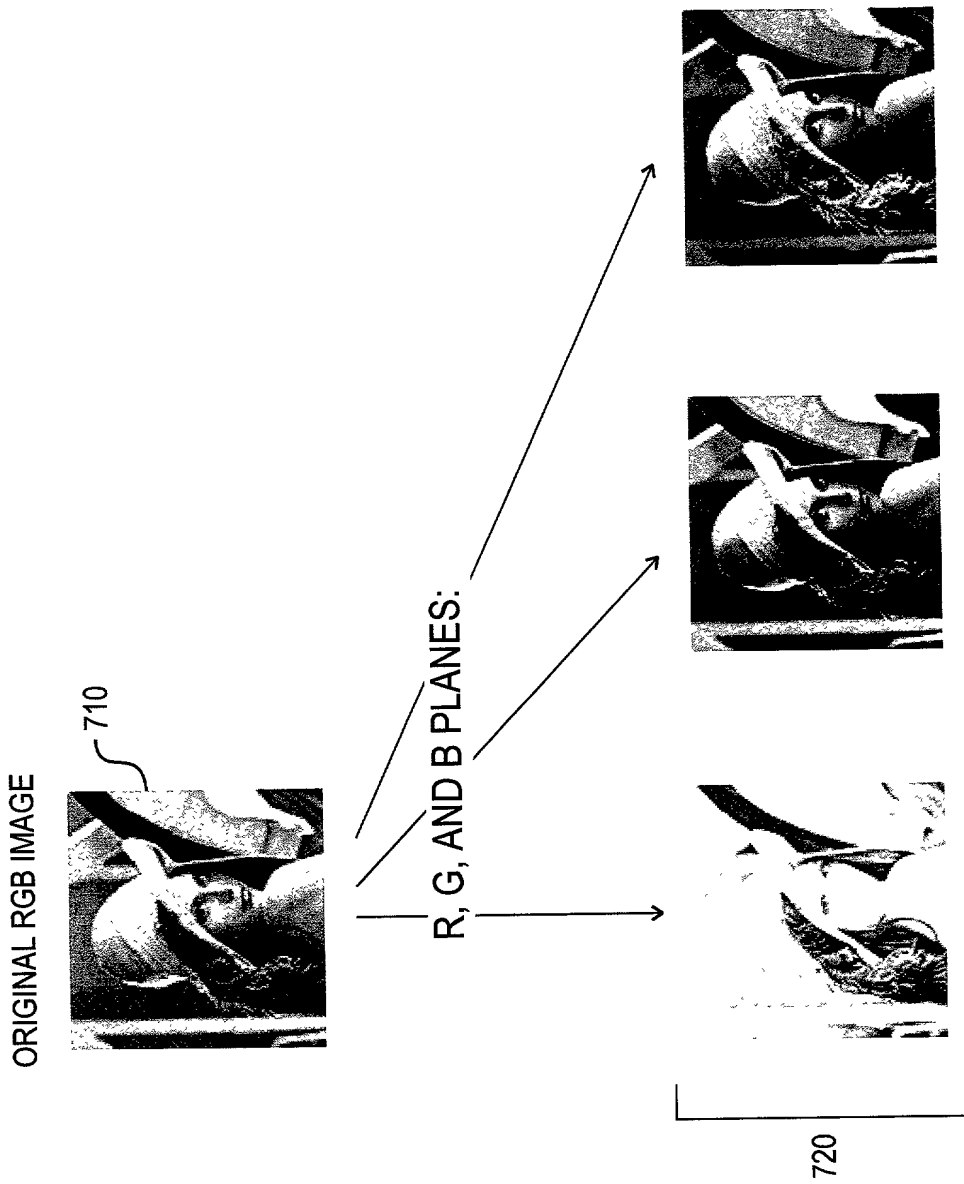


FIG. 7A

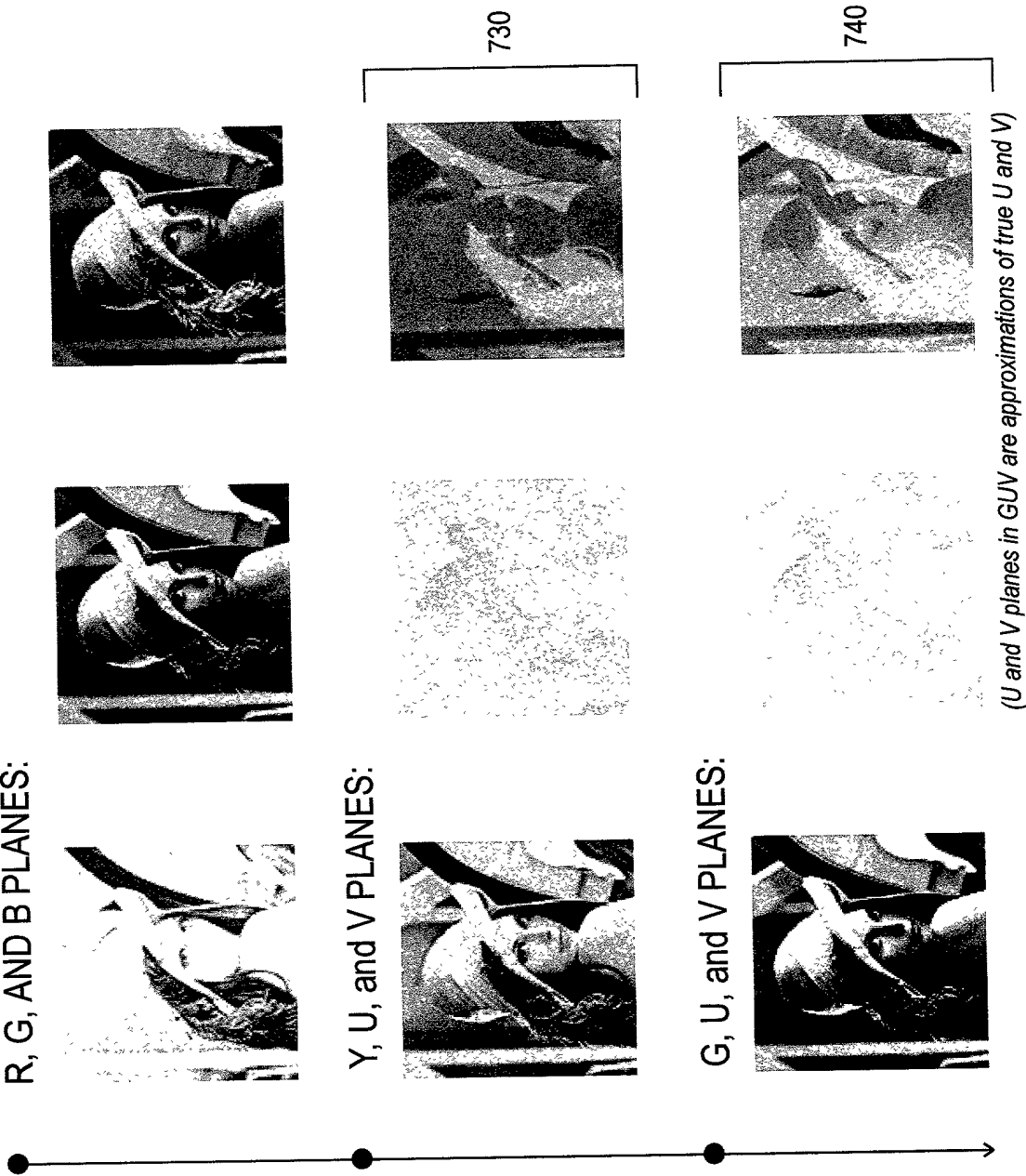
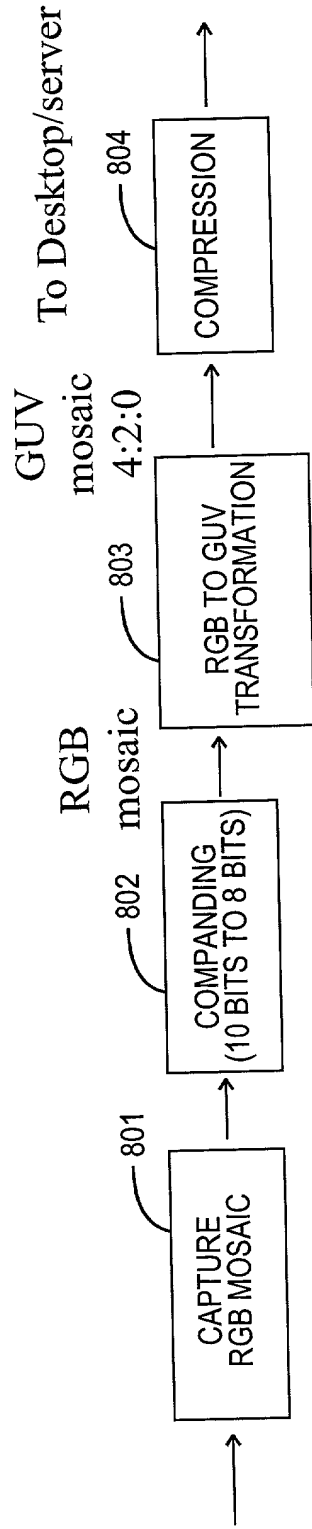
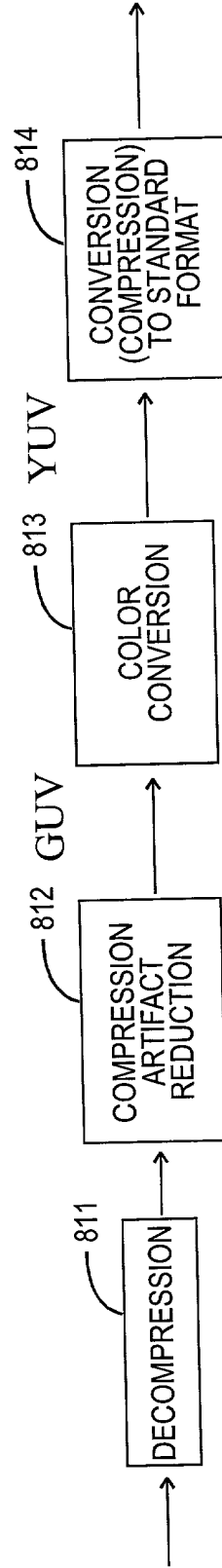


FIG. 7B



(a) Imaging Device



(b) Server/desktop

FIG. 8

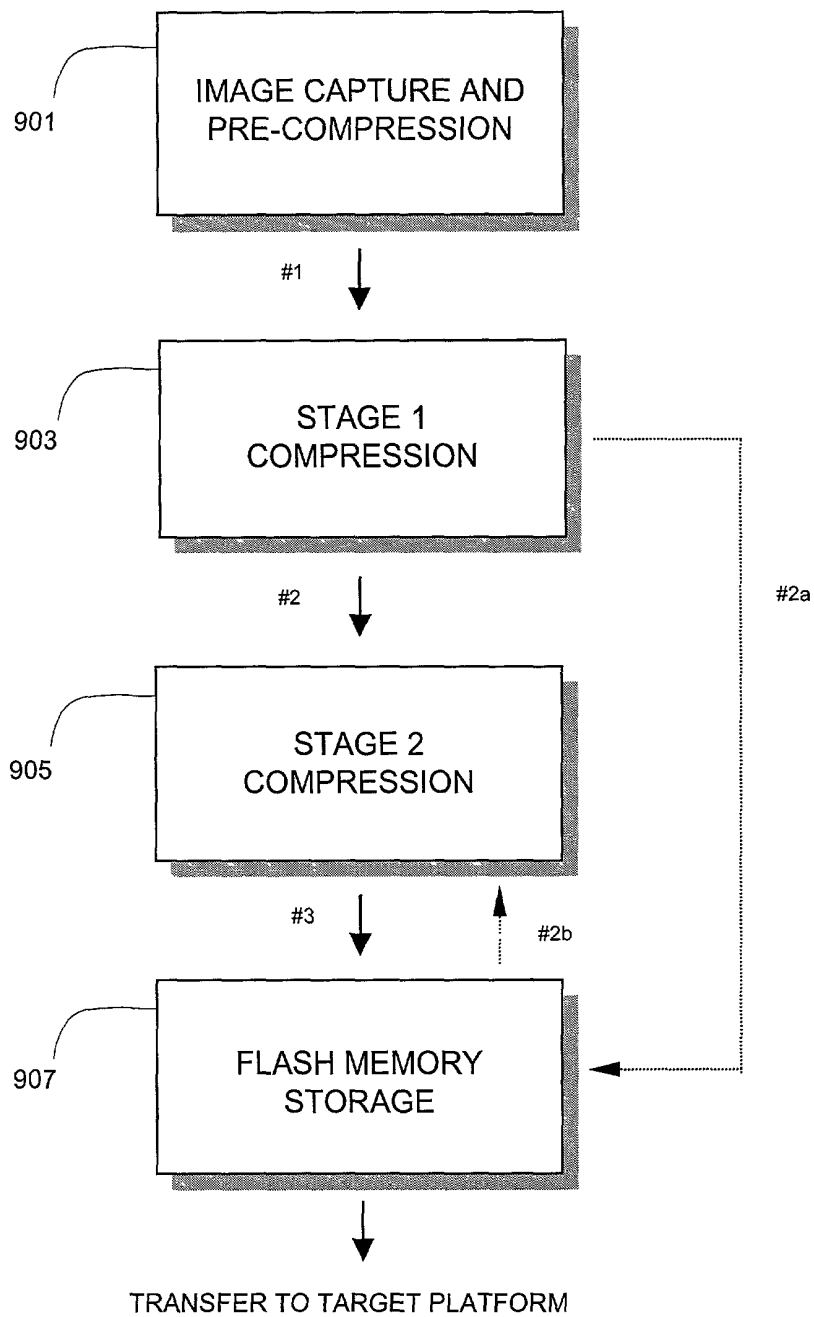


FIG. 9A

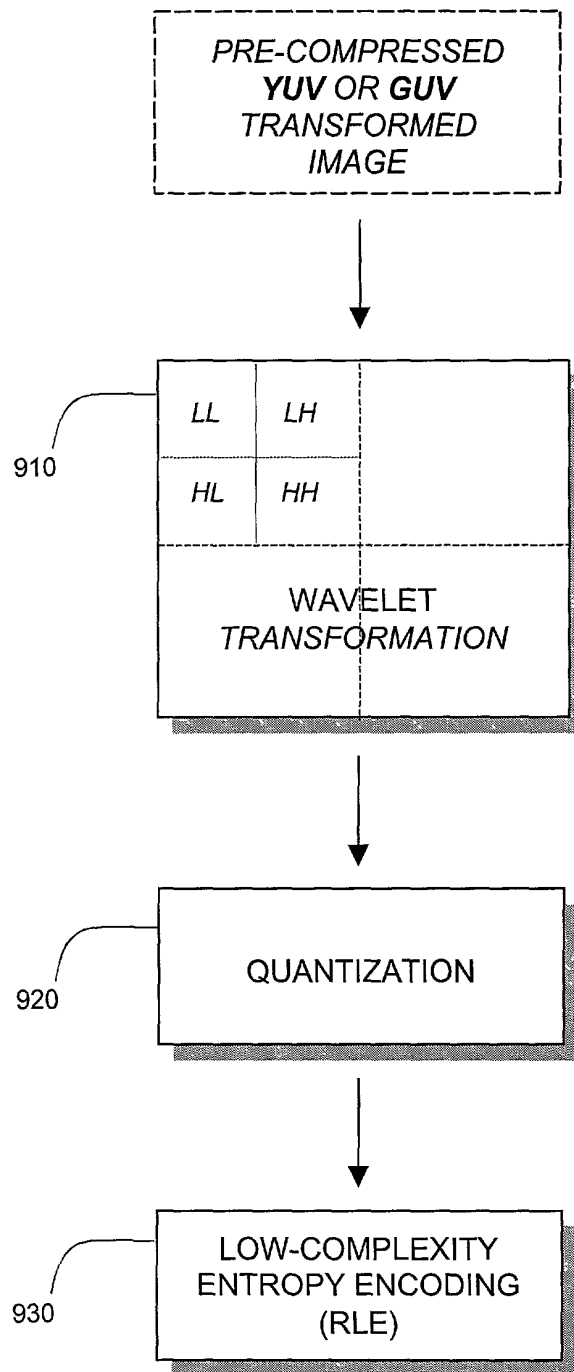


FIG. 9B

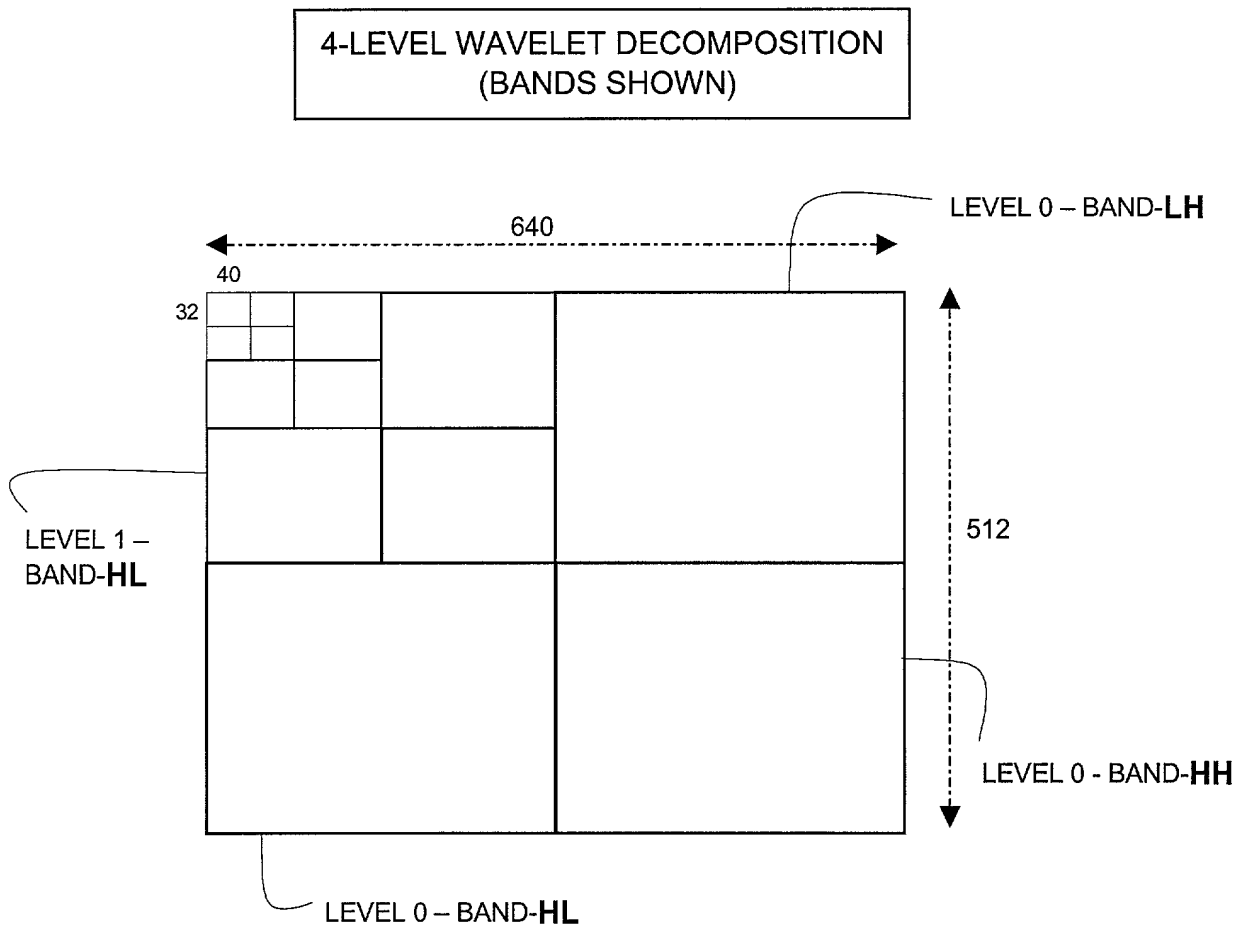


FIG. 10A

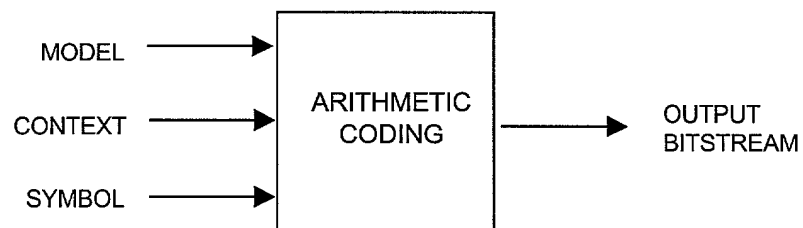


FIG. 10B

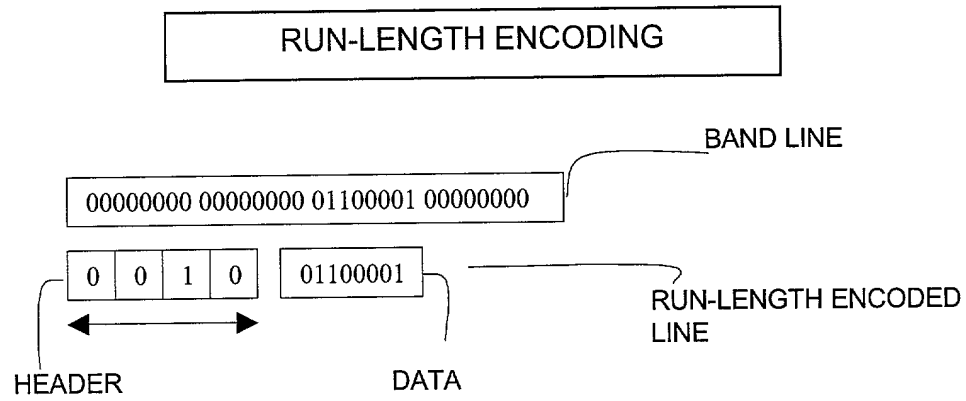


FIG. 10C